

## CLAIMS

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1. A method for processing a voice call over an internet, comprising the steps of:  
receiving a signal from a cable network, the signal representing internet protocol data packets of the voice call and being both modulated in a first format and compressed to match a format of the cable network;  
demodulating the signal modulated in the first format;  
decompressing the signal;  
compressing the signal into a format of a home environment;  
modulating the compressed signal into a second format;  
wirelessly transmitting the signal compressed in the format of the home environment and modulated in the second format to a wireless device; and  
demodulating and decompressing the signal in the wireless device.
2. The method of claim 1, wherein the first format is H.323 compliant.
3. The method of claim 1, wherein the first format comprises a same modulation scheme as the second format.
4. The method of claim 1, wherein the first format comprises a different modulation scheme as the second format.
5. A system for processing a voice call over an internet, comprising:  
means for receiving, demodulating and decompressing a signal representing internet protocol data packets of the voice call, the signal being received from a cable network, modulated in a first format and compressed in a format of the cable network;  
means for modulating the signal into a second format and compressing the signal into a format of a home environment for wireless transmission of the modulated and compressed signal; and  
a wireless device including means for demodulating and decompressing the signal for completion of the voice call.

6. The system of claim 5, wherein the first format is H.323 compliant.
7. The system of claim 5, wherein the first format comprises a same modulation scheme as the second format.
8. The method of claim 1, wherein the first format comprises a different modulation scheme as the second format.